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NOVEMBER 09, 1999

PTAS

MCDONNELL, BOEHNEN, HULBERT & BERGHOF  
A. BLAIR HUGHES  
300 SOUTH WACKER DRIVE - 32ND FLOOR  
CHICAGO, ILLINOIS 60606



\*101140115A\*

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UNITED STATES PATENT AND TRADEMARK OFFICE  
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HAAS, DAVID R.

DOC DATE: 07/01/1999

ASSIGNOR:

XU, CHENGZENG

DOC DATE: 07/01/1999

ASSIGNOR:

MCAULIFFE, MAVYN

DOC DATE: 07/01/1999

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DOC DATE: 08/13/1999

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DOC DATE: 07/01/1999

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DOC DATE: 07/01/1999

ASSIGNOR:

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DOC DATE: 08/12/1999

ASSIGNOR:  
POMMER, RICHARD J.

DOC DATE: 08/19/1999

ASSIGNEE:  
ALLIEDSIGNAL INC.  
101 COLUMBIA ROAD  
MORRISTOWN, NEW JERSEY 07962-2245

SERIAL NUMBER: 09344749  
PATENT NUMBER:

FILING DATE: 06/25/1999  
ISSUE DATE:

SHAREILL COLES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

09-10-1999

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et N. 30-4588 A

DEPARTMENT OF COMMERCE  
Patent and Trademark Office

9.7.99

101140115

To The Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

David R. Haas  
Chengzeng Xu  
Mavyn McAuliffe  
Scott Zimmerman  
Laura Miller  
Meifang Qin  
Baopei Xu  
Richard J. PommerAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 2. Name and address of receiving party(ies)

Name: AlliedSignal Inc.

Address: 101 Columbia Road

City: Morristown

State: New Jersey

Country: U.S.A.

Zip: 07962-2245

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 7/1/99, 8/13/99, 8/12/99 and 8/19/99

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Filing Date

B. Patent No.(s)

09/344,749

June 25, 1999

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: A. Blair Hughes

Registration No.: 32,901

Company Name: McDonnell, Boehnen, Hulbert &amp; Berghoff

Street Address: 300 South Wacker Drive - 32<sup>nd</sup> Floor

City: Chicago

State: Illinois

Country: U.S.A.

ZIP: 60606

## 6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41).....\$40.00

☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

13-2490

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## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

A. Blair Hughes

Printed Name of Person Signing

Signature

Date: September 2, 1999

Total number of pages including cover sheet, attachments, and document: 7

Mail documents to be recorded with required cover sheet information to:

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## ASSIGNMENT

Case No.: 30-4588-A

Serial No.: 09/344,749

Inventors: David R. Haas, Chengzeng Xu, Mavyn McAuliffe,  
Scott Zimmerman, Laura Miller, Meifang Qin,  
Baopei Xu and Richard J. Pommer

Date of Execution  
of Application: 7/1/99, 8/13/99, 8/12/99  
and 8/27/99

Filing Date: 6/25/99

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

**AlliedSignal Inc., a corporation of the state of Delaware**

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

**Lasable Bond-Ply Materials for High Density Printed Wiring Boards**

and identified as:

**Case No. 30-4588A**

by AlliedSignal Inc. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.


The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 1 day of July, 1979.

  
\_\_\_\_\_  
David R. Haas

State of

New Jersey

County of

Harris

The foregoing instrument was acknowledged before me this 1st day of

July, 1979 by David R. Haas

  
\_\_\_\_\_  
NOTARY PUBLIC

IVY L. ABRAHAM  
A NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires April 1, 2001

WITNESS my hand and seal this 1 day of July, 1999.

  
Chengzeng Xu

State of

New Jersey

County of

Morris

The foregoing instrument was acknowledged before me this 1st day of

July, 1999 by Chengzeng Xu

  
NOTARY PUBLIC

IVY L. ABRAHAM

A NOTARY PUBLIC OF NEW JERSEY

My Commission Expires April 1, 2001

WITNESS my hand and seal this 1 day of July, 1999.

  
Mavyn McAuliffe

State of

New Jersey

County of

Morris

The foregoing instrument was acknowledged before me this 1st day of

July, 1999 by Mavyn McAuliffe

  
NOTARY PUBLIC

IVY L. ABRAHAM

A NOTARY PUBLIC OF NEW JERSEY

My Commission Expires April 1, 2001

WITNESS my hand and seal this 13<sup>th</sup> day of Aug, 99.

[Signature]  
Scott Zimmerman

State of N.J.

County of Morris

The foregoing instrument was acknowledged before me this 13<sup>th</sup> day of

August, 1999 by Scott Zimmerman

[Signature]  
NOTARY PUBLIC ABRAHAM  
A NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires April 1, 2001

WITNESS my hand and seal this 1 day of JULY, 1999.

[Signature]  
Laura Miller

State of New Jersey

County of Morris

The foregoing instrument was acknowledged before me this 1<sup>st</sup> day of

July, 1999 by Laura Miller

[Signature]  
NOTARY PUBLIC

IVY L. ABRAHAM  
A NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires April 1, 2001

WITNESS my hand and seal this 1<sup>st</sup> day of July, 1999.

Meifang Qin  
Meifang Qin

State of

New Jersey

County of

Morris

The foregoing instrument was acknowledged before me this 1<sup>st</sup> day of

July, 1999 by Meifang Qin

Ivy L. Abraham  
NOTARY PUBLIC  
IVY L. ABRAHAM  
A NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires April 1, 2001

WITNESS my hand and seal this 12<sup>th</sup> day of August, 1999.

Baopei Xu  
Baopei Xu

State of

New Jersey

County of

Morris

The foregoing instrument was acknowledged before me this 12<sup>th</sup> day of

August, 1999 by Baopei Xu

Ivy L. Abraham  
NOTARY PUBLIC  
IVY L. ABRAHAM  
A NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires April 1, 2001



WITNESS my hand and seal this 19 day of AUG, 1999.

Richard J. Pommer  
Richard J. Pommer

State of CALIFORNIA

County of ORANGE

The foregoing instrument was acknowledged before me this 19<sup>TH</sup> day of  
AUG, 1999 by Richard J. Pommer

John C. Kipfstuhl  
NOTARY PUBLIC

